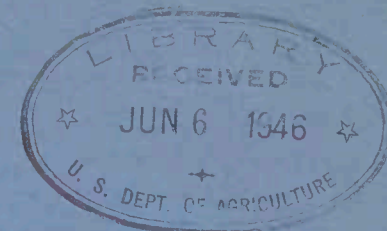


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Reserve



UNITED STATES DEPARTMENT OF AGRICULTURE
FARM CREDIT ADMINISTRATION
WASHINGTON, D. C.

COMPARATIVE CARLOAD RAIL FREIGHT RATES ON
CITRUS FRUIT AND CANNED GRAPEFRUIT JUICE
From
Arizona, California, Florida, and Texas
to
Principal Consuming Markets in the
United States and Canada

By
L. N. Conyers

COOPERATIVE RESEARCH AND
SERVICE DIVISION

INV. '60

MISCELLANEOUS REPORT NO. 42

SEPTEMBER 1941

PREFACE

The following comparative table of short-line rail mileages and carload rail freight rates from representative points of origin in Arizona, California, Florida, and Texas to many of the principal consuming markets in the United States and Canada has been prepared in order to comply with requests from cooperative citrus fruit organizations for freight rates on shipments of fresh fruit and canned grapefruit juice.

All rates indicated are in cents per 100 pounds and are effective as of December 14, 1940, unless otherwise noted. The rates shown are on the basis of lawfully published rates on file with the Interstate Commerce Commission. No attempt has been made to check combination or aggregate of intermediate rates which, in some instances, may make cheaper to some points than those listed.

Short-line rail mileages and carload rail freight rates in cents per 100 pounds in effect December 14, 1940 unless otherwise noted, on fresh citrus fruit and canned grapefruit juice from representative central points in Arizona, California, Florida, and Texas to principal points of consumption in 37 States, the District of Columbia, and Canada

TO	FROM PHOENIX, ARIZONA							FROM SAN BERNARDINO, CALIFORNIA							FROM ORLANDO, FLORIDA							FROM HARLINGEN, TEXAS							
				:Canned Grape-							:Canned Grape-							:Canned Grape-							:Canned Grape-				
	: Oranges	: Grapefruit	:fruit Juice	:	:	:	:	: Oranges	:Grapefruit	:fruit Juice	:	:	:	:	: Oranges	:Grapefruit	:fruit Juice	:	:	:	:	: Oranges	:Grapefruit	:fruit Juice	:	:	:	:	
	:Distance: C. L.	: C. L.	: C. L.	:	:	:	:	:Distance: C. L.	: C. L.	: C. L.	: C. L.	:	:	:	:Distance: C. L.	: C. L.	: C. L.	: C. L.	:	:	:	:Distance: C. L.	: C. L.	: C. L.	: C. L.	:	:	:	:
	:(miles)	:Rate:Min.Wt.:	Rate:Min.Wt.:	Rate:	Min.Wt.	:	:(miles)	:Rate:Min.Wt.:	Rate:Min.Wt.:	Rate:	Min.Wt.	:	:(miles)	:Rate:Min.Wt.:	Rate:Min.Wt.:	Rate:	Min.Wt.	:	:(miles)	:Rate: Min.Wt.:	Rate: Min.Wt.:	Rate:	Min.Wt.	:	:(miles)	:Rate: Min.Wt.:	Rate: Min.Wt.:	Rate:	Min.Wt.
Alabama																													
Birmingham	1891	142	36000	142	31000	88	60000	2061	142	36000	142	31000	99	40000	622	42 A 18000	42 A 18000	47	36000	1014	105	30600	105	30600	76	60000			
Mobile	1828	142	36000	142	31000	88	60000	1998	142	36000	142	31000	88	60000	657	42 B 36000	42 B 36000	49	36000	823	92	30600	92	30600	76	60000			
Arkansas																													
Ft. Smith	1433	120	36000	120	31000	88	40000	1665	120	36000	120	31000	99	40000	1145	105	36000	105	36000	85½	40000	805	53	30600	(b) 41	30600	50	60000	
Little Rock	1512	135	36000	135	31000	88	40000	1776	135	36000	135	31000	88	60000	989	97	36000	97	36000	76½	40000	769	55	30600	(b) 41	30600	50	60000	
Colorado																													
Denver	1046	100	36000	100	31000	77	40000	1295	100	36000	100	31000	83	40000	1871	160	36000	160	36000	125	60000	1238	75	30600	(b) 59	30600	84	40000	
Pueblo	929	100	36000	100	31000	77	40000	1178	100	36000	100	31000	83	60000	1819	160	36000	160	36000	125	60000	1194	75	30600	(b) 59	30600	84	40000	
Dist. of Columbia																													
Washington	2426	142	36000	142	31000	99	60000	2840	142	36000	142	31000	141	40000	926	77	36000	77	36000	52	60000	1774	141	30600	141	30600	50	60000	
Idaho																													
Boise	1307	84	26700	84	26700	99	60000	1185	69	26700	69	26700	78	30000	2707	160	36000	160	36000	96	60000	2179	144	36000	144	36000	88	60000	
Illinois																													
Aurora	1771	142	36000	142	31000	88	40000	2025	142	36000	142	31000	99	40000	1257	93	36000	93	36000	66	60000	1370	100	30600	(b) 80	30600	61	60000	
Bloomington	1724	142	36000	142	31000	88	40000	1981	142	36000	142	31000	99	60000	1180	89	36000	89	36000	61	60000	1263	95	30600	(b) 75	30600	61	60000	
Chicago	1805	142	36000	142	31000	88	40000	2062	142	36000	142	31000	99	60000	1249	93	36000	93	36000	61	60000	1389	100	30600	(b) 80	30600	61	60000	
Danville	1780	142	36000	142	31000	88	40000	2037	142	36000	142	31000	99	60000	1126	87	36000	87	36000	61	60000	1295	100	30600	(b) 80	30600	61	60000	
Decatur	1706	142	36000	142	31000	88	40000	1964	142	36000	142	31000	99	60000	1136	87	36000	87	36000	61	60000	1222	92	30600	(b) 75	30600	61	60000	
Elgin	1822	142	36000	142	31000	88	40000	2045	142	36000	142	31000	99	60000	1276	95	36000	95	36000	66	60000	1385	100	30600	(b) 80	30600	61	60000	
Galesburg	1642	142	36000	142	31000	88	40000	1899	142	36000	142	31000	99	60000	1268	93	36000	93	36000	61	60000	1282	95	30600	(b) 71	30600	61	60000	
Joliet	1782	142	36000	142	31000	88	40000	2039	142	36000	142	31000	99	60000	1249	93	36000	93	36000	61	60000	1342	100	30600	(b) 80	30600	61	60000	
Peoria	1691	142	36000	142	31000	88	40000	1948	142	36000	142	31000	99	60000	1215	91	36000	91	36000	61	60000	1265	95	30600	(b) 75	30600	61	60000	
Quincy	1572	142	36000	142	31000	88	40000	1829	142	36000	142	31000	99	60000	1233	92	36000	92	36000	66	60000	1193	80	30600	(b) 71	30600	61	60000	
Rock Island	1688	142	36000	142	31000	88	40000	1942	142	36000	142	31000	99	60000	1304	96	36000	96	36000	66	60000	1324	95	30600	(b) 71	30600	61	60000	
Rockford	1776	142	36000	142	31000	88	40000	2036	142	36000	142	31000	99	60000	1310	97	36000	97	36000	74	60000	1390	100	30600	(b) 80	30600	61	60000	
Springfield	1666	142	36000	142	31000	88	40000	1924	142	36000	142	31000	99	60000	1158	88	36000	88	36000	61	60000	1205	92	30600	(b) 75	30600	61	60000	
Indiana																													
Elkhart	1889	142	36000	142	31000	88	60000	2179	142	36000	142	31000	105	40000	1217	90	36000	90	36000	61	60000	1425 (a)	106	36000	(c) 95	36000	80	60000	
Evansville	1775	142	36000	142	31000	88	60000	2056	142	36000	142	31000	99	60000	965	74 A 18000	74 A 18000	50	36000	1179 (a)	101	36000	(c) 90	36000	64	60000			
Ft. Wayne	1923	142	36000	142	31000	88	60000	2189	142	36000	142	31000	105	60000	1152	88	36000	88	36000	61	60000	1416 (a)	106	36000	(c) 95	36000	80	60000	
Gary	1822	142	36000	142	31000	88	60000	2113	142	36000	142	31000	99	60000	1236	93	36000	93	36000	61	60000	1368	100	30600	(b) 80	36000	61	60000	
Indianapolis	1851	142	36000	142	31000	88	60000	2116	142	36000	142	31000	99	60000	1049	84	36000	84	36000	61	60000	1297 (a)	101	36000	(c) 90	36000	64	60000	

TO	FROM PHOENIX, ARIZONA								FROM SAN BERNARDINO, CALIFORNIA								FROM ORLANDO, FLORIDA								FROM HARLINGEN, TEXAS											
	Oranges				Grapefruit				Canned Grape-fruit Juice				Oranges				Grapefruit				Canned Grape-fruit Juice				Oranges				Grapefruit				Canned Grape-fruit Juice			
	Distance:				C.L.				C.L.				C.L.				C.L.				C.L.				C.L.				C.L.				C.L.			
	(miles)	Rate	Min.Wt.	Rate	Min.Wt.	Rate	Min.Wt.	Rate	Min.Wt.	(miles)	Rate	Min.Wt.	Rate	Min.Wt.	Rate	Min.Wt.	(miles)	Rate	Min.Wt.	Rate	Min.Wt.	Rate	Min.Wt.	(miles)	Rate	Min.Wt.	Rate	Min.Wt.	(miles)	Rate	Min.Wt.	Rate	Min.Wt.			
Indiana (cont'd)																																				
Lafayette	1818	142	36000	142	31000	88	60000	2084	142	36000	142	31000	99	40000	88	60000	1143	87	36000	87	36000	61	60000	1208	(a)101	36000	(c) 90	36000	50	60000	27	60000	71	60000		
Muncie	1896	142	36000	142	31000	88	60000	2162	142	36000	142	31000	105	40000	88	60000	1100	85	36000	85	36000	61	60000	1352	(a)104	36000	(c) 95	36000	64	60000	64	60000	64	60000		
Richmond	1919	142	36000	142	31000	88	60000	2185	142	36000	142	31000	105	40000	88	60000	1060	84	36000	84	36000	61	60000	1366	(a)106	36000	(c) 95	36000	64	60000	64	60000	64	60000		
South Bend	1874	142	36000	142	31000	88	60000	2164	142	36000	142	31000	105	40000	88	60000	1220	91	36000	91	36000	61	60000	1410	(a)106	36000	(c) 90	36000	61	60000	18	60000	79	60000		
Iowa																																				
Burlington	1597	142	36000	142	31000	88	40000	1863	142	36000	142	31000	99	40000	88	60000	1285	95	36000	95	36000	66	60000	1246	87	30600	(b) 71	30600	61	60000	61	60000	61	60000		
Cedar Rapids	1654	142	36000	142	31000	88	40000	1923	142	36000	142	31000	99	40000	88	60000	1382	107	36000	107	36000	76½	60000	1321	87	30600	(b) 71	30600	61	60000	61	60000	61	60000		
Clinton	1708	142	36000	142	31000	88	40000	1976	142	36000	142	31000	99	40000	88	60000	1313	97	36000	97	36000	76½	60000	1359	95	30600	(b) 71	30600	61	60000	61	60000	61	60000		
Davenport	1672	142	36000	142	31000	88	40000	1937	142	36000	142	31000	99	40000	88	60000	1307	96	36000	96	36000	66	60000	1325	95	30600	(b) 71	30600	61	60000	61	60000	61	60000		
Des Moines	1530	135	36000	135	31000	88	40000	1797	135	36000	135	31000	99	40000	88	60000	1421	109	36000	109	36000	81	60000	1233	87	30600	(b) 71	30600	61	60000	61	60000	61	60000		
Dubuque	1730	142	36000	142	31000	88	40000	1943	142	36000	142	31000	99	40000	88	60000	1370	96	36000	96	36000	66	60000	1401	95	36000	(b) 71	30600	61	60000	61	60000	61	60000		
Ottumwa	1567	142	36000	142	31000	88	40000	1835	142	36000	142	31000	99	40000	88	60000	1338	105	36000	105	36000	76½	60000	1233	87	30600	(b) 71	30600	61	60000	61	60000	61	60000		
Sioux City	1542	135	36000	135	31000	88	40000	1903	135	36000	135	31000	99	40000	88	60000	1530	120	36000	120	36000	92½	60000	1293	93	30600	(b) 77	30600	73	60000	73	60000	73	60000		
Waterloo	1638	142	36000	142	31000	88	40000	1940	142	36000	142	31000	99	40000	88	60000	1435	110	36000	110	36000	79	60000	1338	87	30600	(b) 71	30600	61	60000	61	60000	61	60000		
Kansas																																				
Hutchinson	1145	110	36000	110	31000	88	40000	1619	110	36000	110	31000	99	40000	88	60000	1433	122	36000	122	36000	125	40000	937	75	30600	(b) 59	30600	64	60000	64	60000	64	60000		
Topeka	1312	142	36000	142	31000	88	40000	1752	142	36000	142	31000	99	40000	88	60000	1269	114	36000	114	36000	117	40000	1034	75	30600	(b) 59	30600	61	60000	61	60000	61	60000		
Wichita	1191	110	36000	110	31000	88	40000	1605	110	36000	110	31000	99	40000	88	60000	1397	122	36000	122	36000	122	40000	901	73	30600	(b) 57	30600	61	60000	61	60000	61	60000		
Kentucky																																				
Lexington	1973	142	36000	142	31000	88	60000	2238	142	36000	142	31000	105	40000	88	60000	913	71 A 18000	71 A 18000	71 A 18000	50	60000	1337	116	30600	116	30600	64	60000	64	60000	64	60000	64	60000	
Louisville	1884	142	36000	142	31000	88	60000	2152	142	36000	142	31000	99	40000	88	60000	997	74 A 18000	74 A 18000	74 A 18000	50	60000	1262	(a)104	36000	(c) 90	36000	64	60000	64	60000	64	60000	64	60000	
Paducah	1770	142	36000	142	31000	88	60000	2056	142	36000	142	31000	99	40000	88	60000	948	73 A 18000	73 A 18000	73 A 18000	50	60000	1051	101	30600	(b) 65	30600	50	60000	50	60000	50	60000	50	60000	
Louisiana																																				
Monroe	1365	142	36000	142	31000	88	60000	1693	142	36000	142	31000	99	40000	88	60000	896	87	36000	87	36000	71½	40000	659	45	30600	45	30600	50	60000	50	60000	50	60000		
New Orleans	1556	142	36000	142	31000	88	60000	1896	142	36000	142	31000	99	40000	88	60000	801	43	36000	43	36000	69	36000	683	50	30600	50	30600	42	50000	42	50000	42	50000		
Shreveport	1272	120	36000	120	31000	88	40000	1600	120	36000	120	31000	99	40000	88	60000	993	98	36000	98	36000	77½	40000	566	43	30600	43	30600	50	60000	50	60000	50	60000		
Maine																																				
Portland	2994	142	36000	142	31000	99	60000	3098	142	36000	142	31000	141	40000	99	60000	1484	104	36000	104	36000	77	36000	2261	132	36000	132	36000	50	60000	60	60000	110	60000		
Maryland																																				
Baltimore	2519	142	36000	142	31000	99	60000	2765	142	36000	142	31000	141	40000	99	60000	975	58.9	36000	58.9	36000	65	36000	1823	116	36000	116	36000	50	60000	51	60000	101	60000		
Massachusetts																																				
Boston	2760	142	36000	142	31000	99	60000	3026	142	36000	142	31000	141	40000	99	60000	1383	78	36000	78	36000	75	36000	2232	116	36000	116	36000	50	60000	58	60000	108	60000		
Worcester	2721	142	36000	142	31000	141	40000	2987	142	36000	142	31000	141	40000	99	60000	1348	78	36000	78	36000	75	36000	2194	145	30600	145	30600	50	60000	58	60000	108	60000		

TO	FROM PHOENIX, ARIZONA								FROM SAN BERNARDINO, CALIFORNIA								FROM ORLANDO, FLORIDA								FROM HARLINGEN, TEXAS											
	Oranges				Grapefruit				Canned Grapefruit				Oranges				Grapefruit				Canned Grapefruit				Oranges				Grapefruit				Canned Grapefruit			
	C. L.				C. L.				C. L.				C. L.				C. L.				C. L.				C. L.				C. L.				C. L.			
	(miles)	Rate	Min.	Wt.	(miles)	Rate	Min.	Wt.	(miles)	Rate	Min.	Wt.	(miles)	Rate	Min.	Wt.	(miles)	Rate	Min.	Wt.	(miles)	Rate	Min.	Wt.	(miles)	Rate	Min.	Wt.	(miles)	Rate	Min.	Wt.				
Michigan																																				
Battle Creek	1954	142	36000	142	31000	88	60000	2218	142	36000	142	31000	105 88	40000 60000	1349	93	36000	93	36000	81	36000	1487	(a)111	36000	(c)100	36000	83	60000								
Detroit	2075	142	36000	142	31000	88	60000	2322	142	36000	142	31000	105 88	40000 60000	1273	93	36000	93	36000	73	60000	1533	(a)113	36000	(c) 95	36000	84	60000								
Flint	2047	142	36000	142	31000	88	60000	2304	142	36000	142	31000	105 88	40000 60000	1295	97	36000	97	36000	84	36000	1580	(a)116	36000	(c) 95	36000	50 38 88	60000								
Grand Rapids	2007	142	36000	142	31000	88	60000	2232	142	36000	142	31000	105 88	40000 60000	1321	96	36000	96	36000	83	36000	1512	(a)111	36000	(c) 95	36000	84	60000								
Kalamazoo	1935	142	36000	142	31000	88	60000	2199	142	36000	142	31000	105 88	40000 60000	1244	92	36000	92	36000	81	36000	1470	(a)110	36000	(c) 95	36000	82	60000								
Saginaw	2063	142	36000	142	31000	88	60000	2327	142	36000	142	31000	105 88	40000 60000	1327	98	36000	98	36000	84	36000	1596	(a)117	36000	(c)100	36000	50 38 88	60000								
Minnesota																																				
Duluth	1959	142	36000	142	31000	88	40000	2185	142	36000	142	31000	99 88	40000 60000	1741	124	36000	124	36000	126	36000	1638	106	30600	(b) 94	30600	88	60000								
St. Paul	1984	142	36000	142	31000	88	40000	2045	142	36000	142	31000	99 88	40000 60000	1683	120	36000	120	36000	91	60000	1490	100	30600	(b) 88	30600	84	60000								
Mississippi																																				
Jackson	1643	142	36000	142	31000	88	60000	1813	142	36000	142	31000	99 88	40000 60000	775	56 A 18000 56 B 36000	56 A 18000 56 B 36000	69	36000	767	65	30600	(b) 55	30600	50	60000										
Missouri																																				
Joplin	1372	125	36000	125	31000	88	40000	1650	125	36000	125	31000	99 88	40000 60000	1223	110	36000	110	36000	87½	40000	888	65	30600	(b) 59	30600	61	60000								
Kansas City	1369	125	36000	125	31000	88	40000	1626	125	36000	125	31000	99 88	40000 60000	1370	107	36000	107	36000	82	60000	1023	75	30600	(b) 59	30600	61	60000								
Springfield	1450	135	36000	135	31000	88	40000	1717	135	36000	135	31000	99 88	40000 60000	1137	108	36000	108	36000	85½	40000	955	65	30600	(b) 59	30600	50	60000								
St. Louis	1701	142	36000	142	31000	88	40000	1889	142	36000	142	31000	99 88	40000 60000	1124	85	36000	85	36000	50	60000	1111	80	30600	(b) 65	30600	50	60000								
Montana																																				
Butte	1329	105	26700	105	26700	107	60000	1207	90	26700	90	26700	99 88	40000 60000	2567	160	36000	160	36000	96	60000	2160	144	36000	144	36000	88	60000								
Nebraska																																				
Omaha	1621	125	36000	125	31000	88	40000	1728	125	36000	125	31000	99 88	40000 60000	1538	114	36000	114	36000	82	60000	1207	87	30600	(b) 71	30600	69	60000								
Nevada																																				
Reno	910	65	26700	65	26700	72	36000	647	47	26700	47	26700	55	36000	2943	160	36000	160	36000	96	60000	2472	144	36000	144	36000	88	60000								
New Mexico																																				
Albuquerque	575	53	20000	53	20000	77	40000	824	65 74	36000 20000	65 74	31000 20000	76 61	36000 60000	1980	160	36000	160	36000	96	60000	1131	105	30600	105	30600	91	60000								
New York																																				
Buffalo	2354	142	36000	142	31000	99	60000	2552	142	36000	142	31000	116 99	40000 60000	1340	83	36000	83	36000	80	36000	1776	(a)124	36000	(c)124	36000	95	60000								
New York	2653	142	36000	142	31000	99	60000	2904	142	36000	142	31000	141 99	40000 60000	1146	64½	36000	64½	36000	70	36000	1987	116	36000	116	36000	50 55 105	60000								
Niagara Falls	2285	142	36000	142	31000	99	60000	2585	142	36000	142	31000	116 99	40000 60000	1385	83	36000	83	36000	80	36000	1742	(a)124	36000	(c)124	36000	95	60000								
Rochester	2353	142	36000	142	31000	99	60000	2619	142	36000	142	31000	141 99	40000 60000	1318	83	36000	83	36000	78	36000	1844	142	30600	142	30600	50 46 96	60000								
Schenectady	2539	142	36000	142	31000	99	60000	2825	142	36000	142	31000	141 99	40000 60000	1302	83	36000	83	36000	75	36000	2050	142	30600	142	30600	50 53 103	60000								
Syracuse	2432	142	36000	142	31000	99	60000	2698	142	36000	142	31000	141 99	40000 60000	1320	83	36000	83	36000	77	36000	1923	142	30600	142	30600	50 48 98	60000								
Troy	2580	142	36000	142	31000	99	60000	2854	142	36000	142	31000	141 99	40000 60000	1294	78	36000	78	36000	75	36000	2070	142	30600	142	30600	50 53 103	60000								
Watertown	2489	142	36000	142	31000	99	60000	2																												

TO	FROM PHOENIX, ARIZONA								FROM SAN BERNARDINO, CALIFORNIA								FROM ORLANDO, FLORIDA								FROM HARLINGEN, TEXAS							
	Oranges				Grapefruit				Oranges				Grapefruit				Oranges				Grapefruit				Oranges				Grapefruit			
	Canned Grape-				Canned Grape-				Canned Grape-				Canned Grape-				Canned Grape-				Canned Grape-				Canned Grape-							
	Distance:	C. L.	Rate:	Min. Wt.:	Distance:	C. L.	Rate:	Min. Wt.:	Distance:	C. L.	Rate:	Min. Wt.:	Distance:	C. L.	Rate:	Min. Wt.:	Distance:	C. L.	Rate:	Min. Wt.:	Distance:	C. L.	Rate:	Min. Wt.:	Distance:	C. L.	Rate:	Min. Wt.:				
(miles)				(miles)				(miles)				(miles)				(miles)				(miles)				(miles)								
North Carolina																																
Charlotte	2313	142	36000	142	31000	88	60000	2483	142	36000	142	31000	105 88	40000 60000	573	41 A 18000 41 B 36000	41 A 18000 41 B 36000	46	36000	1426	128	30600	128	30600	84	60000						
Durham	2442	142	36000	142	31000	88	60000	2632	142	36000	142	31000	105 88	40000 60000	668	49 A 18000 49 B 36000	49 A 18000 49 B 36000	50	36000	1575	134	30600	134	30600	84	60000						
North Dakota																																
Fargo	1934	142	36000	142	31000	88	60000	2079	142	36000	142	31000	99 88	40000 60000	1859	142	36000	142	36000	151	60000	1678	121	30600 (b)	100	30600	84	60000				
Ohio																																
Akron	2109	142	36000	142	31000	99	60000	2386	142	36000	142	31000	116 99	40000 60000	1212	92	36000	92	36000	73	60000	1583	(a) 116	36000 (c)	100	36000	50 39 89	60000				
Cincinnati	1959	142	36000	142	31000	88	60000	2225	142	36000	142	31000	105 88	40000 60000	995	74 A 18000 74 B 36000	74 A 18000 74 B 36000	50	60000	1368	(a) 104	36000 (c)	95	36000	64	60000						
Cleveland	2113	142	36000	142	31000	99	60000	2375	142	36000	142	31000	116 99	40000 60000	1229	92	36000	92	36000	73	60000	1579	(a) 116	36000 (c)	100	36000	50 39 89	60000				
Columbus	2029	142	36000	142	31000	99	60000	2294	142	36000	142	31000	116 99	40000 60000	1097	86	36000	86	36000	73	60000	1476	(a) 110	36000 (c)	100	36000	84	60000				
Dayton	1960	142	36000	142	31000	88	60000	2225	142	36000	142	31000	105 88	40000 60000	1049	83	36000	83	36000	73	60000	1407	(a) 106	36000 (c)	95	36000	64 15 79	60000				
Lima	1977	142	36000	142	31000	88	60000	2268	142	36000	142	31000	105 88	40000 60000	1121	86	36000	86	36000	73	60000	1437	(a) 110	36000 (c)	95	36000	50 33 83	60000				
Mansfield	2046	142	36000	142	31000	99	60000	2348	142	36000	142	31000	116 99	40000 60000	1165	88	36000	88	36000	73	60000	1480	(a) 116	36000 (c)	100	36000	50 36 86	60000				
Massillon	2102	142	36000	142	31000	99	60000	2414	142	36000	142	31000	116 99	40000 60000	1186	91	36000	91	36000	73	60000	1582	(a) 116	36000 (c)	100	36000	50 39 89	60000				
Toledo	2014	142	36000	142	31000	88	60000	2280	142	36000	142	31000	105 88	40000 60000	1192	90	36000	90	36000	73	60000	1508	(a) 113	36000 (c)	95	36000	84	60000				
Youngstown	2171	142	36000	142	31000	99	60000	2465	142	36000	142	31000	116 99	40000 60000	1250	95	36000	95	36000	82	36000	1632	(a) 118	36000 (c)	118	36000	50 40 90	60000				
Zanesville	2087	142	36000	142	31000	99	60000	2353	142	36000	142	31000	116 99	40000 60000	1112	87	36000	87	36000	73	60000	1515	(a) 112	36000 (c)	112	36000	50 37 87	60000				
Oklahoma																																
Enid	1180	100	36000	100	31000	88	40000	1534	100	36000	100	31000	99 88	40000 60000	1391	122	36000	122	36000	96	60000	804	60	30600 (b)	52	30600	62	60000				
Muskogee	1321	110	36000	110	31000	88	40000	1586	110	36000	110	31000	99 88	40000 60000	1217	110	36000	110	36000	96	60000	769	53	30600 (b)	41	30600	50	60000				
Oklahoma City	1158	100	36000	100	31000	88	40000	1413	100	36000	100	31000	99 88	40000 60000	1342	117	36000	117	36000	96	60000	738	47	30600 (b)	39	30600	50	60000				
Tulsa	1268	105	36000	105	31000	88	40000	1590	105	36000	105	31000	99 88	40000 60000	1269	114	36000	114	36000	92½	60000	815	53	30600 (b)	47	30600	50	60000				
Oregon																																
Portland	1404	74	26700	74	26700	71	36000	1141	65	26700	65	26700	57	36000	3190	160	36000	160	36000	96	60000	2662	144	36000	173 144	32400 36000	88	60000				
Pennsylvania																																
Altoona	2330	142	36000	142	31000	99	60000	2608	142	36000	142	31000	141 99	40000 60000	1135	83	36000	83	36000	72	36000	1667	142	30600	142	30600	50 46 96	60000				
Philadelphia	2561	142	36000	142	31000	99	60000	2838	142	36000	142	31000	141 99	40000 60000	1063	64½	36000	64½	36000	67	36000	1912	116	36000	116	36000	50 53 103	60000				
Pittsburgh	2260	142	36000	142	31000	99	60000	2478	142	36000	142	31000	116 99	40000 60000	1193	83	36000	83	36000	75	36000	1660	(a) 119	36000 (c)	119	36000	92	60000				

TO	FROM PHOENIX, ARIZONA							FROM SAN BERNARDINO, CALIFORNIA							FROM ORLANDO, FLORIDA							FROM HARLINGEN, TEXAS						
	Oranges		Grapefruit		Canned Grape-			Oranges		Grapefruit		Canned Grape-			Oranges		Grapefruit		Canned Grape-			Oranges		Grapefruit		Canned Grape-		
	Distance:	C. L.	Distance:	C. L.	Distance:	Min. Wt.	Rate:	Distance:	C. L.	Distance:	C. L.	Distance:	Min. Wt.	Rate:	Distance:	C. L.	Distance:	C. L.	Distance:	Min. Wt.	Rate:	Distance:	C. L.	Distance:	C. L.	Distance:	Min. Wt.	Rate:
	(miles)		(miles)		(miles)			(miles)		(miles)		(miles)			(miles)		(miles)		(miles)			(miles)		(miles)		(miles)		
Pennsylvania (cont'd)																												
Reading	2515	142	36000	142	31000	99	60000	2793	142	36000	142	31000	141 99	40000 60000	1082	75	36000	75	36000	67	36000	1910	142	30600	142	30600	50 52 102	60000
Scranton	2530	142	36000	142	31000	99	60000	2808	142	36000	142	31000	141 99	40000 60000	1186	83	36000	83	36000	72	36000	1977	142	30600	142	30600	50 52 102	60000
York	2481	142	36000	142	31000	99	60000	2761	142	36000	142	31000	141 99	40000 60000	1209	75	36000	75	36000	67	36000	1858	142	30600	142	30600	50 50 100	60000
South Dakota																												
Sioux Falls	1629	142	36000	142	31000	88	40000	1864	142	36000	142	31000	99 88	40000 60000	1716	122	36000	122	36000	126	36000	1382	93	30600	(b) 82	30600	84	60000
Tennessee																												
Chattanooga	1958	142	36000	142	31000	88	60000	2181	142	36000	142	31000	99 88	40000 60000	657	44 A 18000 44 B 36000	44 A 18000 44 B 36000	50	36000	1158	113	30600	113	30600	84	60000		
Memphis	1540	142	36000	142	31000	88	60000	1868	142	36000	142	31000	99 88	40000 60000	856	59 A 18000 59 B 36000	59 A 18000 59 B 36000	50	60000	886	65	30600	(b) 55	30600	50	60000		
Nashville	1877	142	36000	142	31000	88	60000	2098	142	36000	142	31000	99 88	40000 60000	809	53 A 18000 53 B 36000	53 A 18000 53 B 36000	50	60000	1116	111	30600	111	30600	77	60000		
Texas																												
Abilene	886	100	36000	100	31000	88	40000	1214	100	36000	100	31000	99 88	40000 60000	1375	122	36000	122	36000	96	60000	581	44	30600	44	30600	38	60000
Amarillo	876	90	36000	90	31000	77	40000	1139	90	36000	90	31000	99 88	40000 60000	1546	129	36000	129	36000	96	60000	849	55	30600	55	30600	41	60000
Austin	1116	100	36000	100	31000	88	40000	1440	100	36000	100	31000	99 88	40000 60000	1314	119	36000	119	36000	96	60000	341	33	30600	33	30600	24	60000
Beaumont	1533	110	36000	110	31000	88	40000	1662	110	36000	110	31000	99 88	40000 60000	1067	105	36000	105	36000	81½	60000	418	35	30600	35	30600	27	60000
Brownwood	958	100	36000	100	31000	88	40000	1286	100	36000	100	31000	99 88	40000 60000	1356	122	36000	122	36000	96	60000	498	39	30600	39	30600	34	60000
Cisco	932	100	36000	100	31000	88	40000	1260	100	36000	100	31000	99 88	40000 60000	1330	122	36000	122	36000	95½	60000	572	43	30600	43	30600	37	60000
Dallas	1079	100	36000	100	31000	88	40000	1406	100	36000	100	31000	99 88	40000 60000	1183	110	36000	110	36000	88½	60000	517	35	30600	35	30600	30	60000
El Paso	432	53	20000	53	20000 (a)	55	10000	760	65 74	36000 20000	65 74	31000 20000	76 61	36000 60000	1829	154	36000	154	36000	96	60000	873	55	30600	55	30600	42	60000
Fort Worth	1047	100	36000	100	31000	88	40000	1375	100	36000	100	31000	99 88	40000 60000	1215	110	36000	110	36000	88½	60000	513	35	30600	35	30600	30	60000
Galveston	1285	100	36000	100	31000	88	40000	1585	100	36000	100	31000	99 88	40000 60000	1199	109	36000	109	36000	85½	40000	343	30	30600	30	30600	24	60000
Houston	1251	100	36000	100	31000	88	40000	1578	100	36000	100	31000	99 88	40000 60000	1150	109	36000	109	36000	85½	40000	334	30	30600	30	30600	24	60000
Lubbock	889	90	36000	90	31000	77	40000	1217	90	36000	90	31000	99 88	40000 60000	1537	129	36000	129	36000	96	60000	727	50	30600	50	30600	38	60000
San Antonio	1056	100	36000	100	31000	88	40000	1373	100	36000	100	31000	99 88	40000 60000	1356	119	36000	119	36000	96	60000	262	25	30600	25	30600	22	60000
Waco	1087	100	36000	100	31000	88	40000	1414	100	36000	100	31000	99 88	40000 60000	1231	110	36000	110	36000	90½	40000	425	35	30600	35	30600	27	60000
Wichita Falls	1011	100	36000	100	31000	88	40000	1340	100	36000	100	31000	99 88	40000 60000	1324	114	36000	114	36000	95½	40000	627	Intrastate				35	60000
Utah																												
Salt Lake City	843	65	26700	65	26700	57	60000	774	50	26700	50	26700	78 68 54	30000 40000 60000	2427	160	36000	160	36000	96	60000	1808	125	30600	125	30600	88	60000
Vermont																												
Burlington	2811	142	36000	100	31000	99	60000	2963	142	36000	142	31000	141 99	40000 60000	1446	107	36000	107	36000	80	36000	1968	145	30600	145	30600	50 58 108	60000
Washington																												
Seattle	1584	81	26700	81	26700	74	36000	1321	75	26700	75	26700	60	36000	3221	160	36000	160	36000	96	60000	2760	144	36000	144	36000	88	60000
Spokane	1620	95	26700	95	26700	91	36000	1393	75	26700	75	26700	67 66	30000 50000	2923	160	36000	160	36000	96	60000	2509	144	36000	144	36000	88	60000
Takoma	1546	81	26700	81	26700	74	36000	1283	75	26700	75	26700	60	36000	3222	160	36000	160	36000	96	60000	2757	144	36000	144	36000	88	60000

TO	FROM PHOENIX, ARIZONA							FROM SAN BERNARDINO, CALIFORNIA							FROM ORLANDO, FLORIDA							FROM HARLINGEN, TEXAS						
	: Oranges : Grapefruit :fruit Juice : Canned Grape-:							: Oranges : Grapefruit :fruit Juice : Canned Grape-:							: Oranges : Grapefruit :fruit Juice : Canned Grape-:							: Oranges : Grapefruit :fruit Juice : Canned Grape-:						
	:Distance: C. L. : C. L. : C. L. : C. L.:							:Distance: C. L. : C. L. : C. L. : C. L.:							:Distance: C. L. : C. L. : C. L. : C. L.:							:Distance: C. L. : C. L. : C. L. : C. L.:						
	:(miles) :Rate:Min.Wt.:Rate:Min.Wt.:Rate: Min.Wt.:							:(miles) :Rate:Min.Wt.:Rate:Min.Wt.:Rate: Min.Wt.:							:(miles):Rate: Min.Wt.:Rate: Min.Wt.:Rate: Min.Wt.:							:(miles):Rate : Min.Wt.: Rate : Min.Wt.: Rate : Min.Wt.:						
West Virginia																												
Clarksburg	2215	142	36000	142	31000	99	60000	2495	142	36000	142	31000	141 99	40000 60000	1130	86	36000	86	36000	73	36000	1648	134	30600	134	30600	64 28 92	60000
Huntington	2114	142	36000	142	31000	99	60000	2382	142	36000	142	31000	116 99	40000 60000	975	74	36000	74	36000	67	36000	1477	124	30600	124	30600	64 22 86	60000
Wheeling	2207	142	36000	142	31000	99	60000	2450	142	36000	142	31000	116 99	40000 60000	1189	83	36000	83	36000	75	36000	1635 (a)	119	36000	(c)119	36000	90	60000
Wisconsin																												
Appleton	1923	142	36000	142	31000	88	40000	2186	142	36000	142	31000	99 88	40000 60000	1432	109	36000	109	36000	107	36000	1524	100	30600	(b) 88	30600	84	60000
Eau Claire	1873	142	36000	142	31000	88	40000	2254	142	36000	142	31000	99 88	40000 60000	1476	117	36000	117	36000	115	36000	1592	100	30600	(b) 88	30600	84	60000
Fond du Lac	1887	142	36000	142	31000	88	40000	2150	142	36000	142	31000	99 88	40000 60000	1397	108	36000	108	36000	106	36000	1488	100	30600	(b) 88	30600	84	60000
Green Bay	1952	142	36000	142	31000	88	40000	2215	142	36000	142	31000	99 88	40000 60000	1447	111	36000	111	36000	105	36000	1553	100	30600	(b) 88	30600	84	60000
La Crosse	1794	142	36000	142	31000	88	40000	2147	142	36000	142	31000	99 88	40000 60000	1508	113	36000	113	36000	112	36000	1485	100	30600	(b) 88	30600	84	60000
Madison	1818	142	36000	142	31000	88	40000	2084	142	36000	142	31000	99 88	40000 60000	1379	96	36000	96	36000	74	60000	1422	100	30600	(b) 85	30600	74	60000
Milwaukee	1940	142	36000	142	31000	88	40000	2125	142	36000	142	31000	99 88	40000 60000	1369	97	36000	97	36000	72	60000	1453	100	30600	(b) 85	30600	66	60000
Oshkosh	1905	142	36000	142	31000	88	40000	2162	142	36000	142	31000	99 88	40000 60000	1414	109	36000	109	36000	105	36000	1506	100	30600	(b) 88	30600	84	60000
Racine	1842	142	36000	142	31000	88	40000	2105	142	36000	142	31000	99 88	40000 60000	1311	96	36000	96	36000	72	60000	1443	100	30600	(b) 85	30600	72	60000
Wyoming																												
Cheyenne	1153	100	36000	100	31000	77	40000	1224	100	36000	100	31000	83 77	40000 60000	1921	160	36000	160	36000	96	60000	1405	81	30600	(b) 71	30600	88	60000
Canada																												
Vancouver, B. C.	2039	96	26700	96	26700	97	40000	1475	95	26700	95	26700	83	40000	3342	160	36000	160	36000	96	60000	2928	173 144	32400 36000	173 144	32400 36000	88	60000
Winnipeg, Man.	2256	164	36000	164	31000	114	40000	2249	164	36000	164	31000	125 114	60000 40000	2072	192	32400	192	32400	166	60000	1992	150 144	30600 36000	(b)125	30600	88 26 114	60000
Toronto, Ont.	2293	142	36000	142	31000	99	60000	2550	142	36000	142	31000	116 99	40000 60000	1441	104	36000	104	36000	108	36000	1841	142	36000	142	30600	61 54	60000
Montreal, Que.	2627	142	36000	142	31000	99	60000	2884	142	36000	142	31000	141 99	40000 60000	1775	108½	36000	108½	36000	107	36000	2175	145	30600	145	30600	(d)115 50 82	60000
Quebec, Que.	2799	157	36000	157	31000	109	60000	3056	157	36000	157	31000	151 109	40000 60000	1947	125	36000	125	36000	120	36000	2347	145 59 204	30600 24000	145 59 204	30600 24000	(d)132 50 92 (a)142	60000

A - Minimum weight 18,000 lbs. in railroad-owned ventilated boxcars.

B - Minimum weight 36,000 lbs. in refrigerator cars.

C - 40,000 lbs. as to 71½ beyond St. Louis; 36,000 remainder.

D - 111 cents Min.Wt. 36,000 lbs. to St. Paul or

91 " " 60,000 " to St. Paul; plus

75 " " 24,000 " beyond.

(a)- Effective January 23, 1941

(b)- Effective February 16, 1941

(c)- Effective April 3, 1941

(d)- Effective January 1, 1941

(e)- For 20,000 pounds minimum weight, rate is 47 cents per 100 pounds; for 60,000 pounds minimum weight, rate is 42 cents per 100 pounds.

Source: Authority for distances, Traffic Department, Rio Grande Valley Citrus Exchange.

Authority for rates and minimums, Interstate Commerce Commission.

